

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 6395-68045	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US04/08566	International filing date (<i>day/month/year</i>) 19 March 2004 (19.03.2004)	(Earliest) Priority Date (<i>day/month/year</i>) 21 March 2003 (21.03.2003)
Applicant THE GOV. OF THE USA AS REP. BY THE SEC. HHS		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.

 It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the Report**
 - a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
 2. **Certain claims were found unsearchable (See Box No. II)**
 3. **Unity of invention is lacking (See Box No. III)**
 4. **With regard to the title,**
 - the text is approved as submitted by the applicant.
 - the text has been established by this Authority to read as follows:
 5. **With regard to the abstract,**
 - the text is approved as submitted by the applicant.
 - the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
 6. **With regard to the drawings,**
 - a. the figure of the drawings to be published with the abstract is Figure No. 2
 - as suggested by the applicant.
 - as selected by this Authority, because the applicant failed to suggest a figure.
 - as selected by this Authority, because this figure better characterizes the invention.
 - b. none of the figures is to be published with the abstract.

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Box IV TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

A usable portion or threshold of a sigmoid curve (210) is found for determining the concentration or presence of a substance in a test sample (220).

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C 12 Q 1/06
US CL : 702/23

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : Please See Continuation Sheet

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	US 2003/0157498 A1 (EYRE et al) 21 August 2003 (21.08.03), paragraphs 0004, and 0044-0053.	1, 8, 11, 13
X	US 6,503,720 B2 (WITTWER et al) 07 January 2003 (07.01.2003), See entire document, specifically Figs. 5 and 6, col. 5, lines 1-17, col. 6, lines 1-27, and Examples 1-3,	1-6, 8-11, 13-22, 24-30
---	specifically col. 12, lines 1-32.	-----
Y	US 2002/0160012 A1 (KAASTRUP) 31 October 2002 (31.10.2002), paragraphs 0008-0011.	7, 12, 23
A	US 6,514,770 B1 (SORIN) 04 February 2003 (04.02.2003), See entire document.	1-30
A	US 2002/0082386 A1 (MANGOLD et al) 27 June 2002 (27.06.2002), See entire document.	1-30
A	US 2002/0034732 A1 (CAPON et al) 21 March 2002 (21.03.2002), See entire document.	1-30
A	US 6,188,969 B1 (MINOR) 13 February 2001 (13.02.2001), See entire document.	1-30
A	US 5,948,368 A (HIRAI et al) 07 September 1999 (07.09.1999), See entire document.	1-30

Further documents are listed in the continuation of Box C.

See patent family annex.

Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

14 March 2005 (14.03.2005)

Date of mailing of the international search report

03 MAY 2005

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INTERNATIONAL SEARCH REPORTInternational application No.
PCT/US04/08566**C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,616,504 A (BROWN et al) 01 April 1997 (01.04.1997), See entire document.	1-30

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Continuation of B. FIELDS SEARCHED Item 1:
702/23
702/19-32 and search terms (sigmoid, concentration, dilution)

Continuation of B. FIELDS SEARCHED Item 3:
US-PGPUB;USPAT;EPO;JPO;DERWENT;IBM_TDB
East Text Search Enclosed